

IN THE CLAIMS:

Claims 1, 4, 9, and 10 have been amended herein. Claim 8 has been cancelled. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for assaying a chemical comprising:
providing an extraction solution for dissolving a sprout inhibiting chemical of a crop sample and
a predetermined amount of an internal standard in a container;
collecting a crop sample at a crop storage location;
placing the crop sample in the container;
transporting the container including the crop sample from the crop storage location to a
chemical testing facility;
quantitatively measuring an amount of the sprout inhibiting chemical in the extraction solution
at the chemical testing facility; and
comparing the amount of internal standard present in the container at the chemical testing facility
with the amount of internal standard placed in the container at the crop storage location to
obtain a calibration ratio.
2. (Cancelled).
3. (Previously Presented) The method according to claim 1, wherein providing the
extraction solution and the predetermined amount of an internal standard comprises sending a kit
having the container including the extraction solution and the predetermined amount of the
internal standard to the crop storage location.
4. (Currently Amended) The method according to claim 1, wherein quantitatively
measuring the amount of the sprout inhibiting chemical in the extraction solution comprises

placing a portion of the extraction solution in a gas chromatograph.

5. (Original) The method according to claim 1, further comprising instructing a user on how to collect the sample.

6. (Original) The method according to claim 1, further comprising recording information about the sample.

7. (Previously presented) The method according to claim 1, wherein the crop sample is a tuber.

8. (Cancelled)

9. (Currently Amended) The method according to claim 1, wherein the sprout inhibiting chemical is a substituted naphthalene or chlorophapham.

10. (Currently Amended) The method according to claim 1, further comprising:
calculating a ratio of a measured amount of the internal standard in relation to the predetermined amount of the internal standard; and
calibrating the amount of the measured sprout inhibiting chemical based on the calculated ratio.

11. (Previously Presented) The method according to claim 3, further comprising:
placing the container including the sample in the kit; and
wherein transporting the container including the sample comprises transporting the kit having the sample in the container to the chemical testing facility.

12. (Currently Amended) A method for analyzing a sprout inhibitor on a tuber comprising:
collecting a tuber sample from the tuber at a potato storage facility;
depositing the tuber sample into a container including an extraction solution;

transporting the container including the tuber sample to a chemical testing facility;
assaying the sprout inhibitor in the extraction solution at the chemical testing facility;
placing a predetermined amount of an internal standard in the extraction solution;
quantifying an amount of the internal standard in the extraction solution; and
comparing the quantified amount of the internal standard in the extraction solution in the
container at the chemical testing facility with the predetermined amount of the internal
standard placed in the extraction solution deposited in the container at the potato storage
facility.

13. (Original) The method according to claim 12, wherein collecting the tuber sample
comprises cutting the tuber sample from the tuber.

14. (Cancelled)

15. (Previously Presented) The method according to claim 12, wherein transporting
the container comprises sending a kit including the container, the tuber sample, and the
extraction solution to the potato storage facility.

16. (Original) The method according to claim 12, wherein assaying the sprout
inhibitor comprises placing a portion of the extraction solution in a high pressure liquid
chromatograph or a gas chromatograph.

17. (Original) The method according to claim 12, wherein assaying the sprout
inhibitor in the extraction solution comprises quantitatively measuring an amount of the sprout
inhibitor.

18. (Original) The method according to claim 12, further comprising instructing a
user how to collect the tuber sample.

19. (Original) The method according to claim 12, further comprising recording information about the tuber sample.

20. (Previously Presented) The method according to claim 12, further comprising washing the tuber at the potato storage facility.

21. (Previously Presented) The method according to claim 15, further comprising:
placing the container including the tuber sample in the kit; and
wherein transporting the container including the tuber sample comprises sending the kit to the
chemical testing facility.